



F0 007 886 841

1981 BOTSWANA AGRICULTURAL STATISTICS

Francistown
Region



Agricultural Statistics Unit
Planning & Statistics
MINISTRY OF AGRICULTURE
Central Statistics Office
MINISTRY OF FINANCE &
DEVELOPMENT PLANNING

PREFACE AND ACKNOWLEDGEMENTS

This is one of a series of six regional reports that are available from the Agricultural Statistics Unit, Ministry of Agriculture. Agricultural Statistics provides an overall summary on agriculture in the country. This series reflects the latest in a continuing effort to provide meaningful data at the regional level for the formulation and evaluation of local agricultural policy. Although data contained in this report can be used independently, greater benefits will be realized if it is used in conjunction with the national report.

A number of persons contributed towards the successful production of this report. The Division of Planning and Statistics is indebted to the following individuals: L. Mmolawa, M. Matlho, I. Mbakiso, G. Chengeta, T. Mapfumo, Francistown Region Statistical Team; Geoff Hinchliffe, Systems Analyst/Programmer; and Gerald Bulawa, Cartographer.

GILBERT L. MOTSEMME
Head, Statistics Unit,
Division of Planning and Statistics,
Ministry of Agriculture.

M.G. SINGH
Statistician,
Central Statistics Office,
Ministry of Finance and
Development Planning.

November, 1981.

1981 AGRICULTURAL STATISTICS

FRANCISTOWN REGION

Table of Contents

	<u>Page</u>
Introduction	
TABLES	
SUMMARY	
TABLE 1: Summary of Traditional Livestock Estimates with Coefficients of Variation	2
TABLE 2: Summary of Traditional Crop Estimates with Coefficients of Variation	3
CATTLE	
TABLE 3: CATTLE Farms, Animals and Average Size by Districts and Size of Cattle Holding, Traditional Farms	6
TABLE 4: CATTLE HERD COMPOSITION Bulls, Oxen, Cows, Tollies, Heifers and Calves by Districts and Size of Cattle Holding, Traditional Farms	8
TABLE 5: CATTLE HERD COMPOSITION Bulls, Oxen, Cows, Tollies, Heifers and Calves by Districts and Size of Cattle Holding, Traditional Farms	9
TABLE 6: CATTLE INVENTORY Births, Deaths, Sales, Home Slaughter and Purchases by Districts and Size of Cattle Holding, Traditional Farms	10
TABLE 7: CATTLE INVENTORY Ratio of Births to Cows and Deaths, Sales, Home Slaughter, and Purchases to Total Cattle by Districts and Size of Cattle Holding, Traditional Farms	11
GOATS, SHEEP, OTHER LIVESTOCK	
TABLE 8: GOATS Farms, Animals and Average Size by Districts and Size of Goat Holding, Traditional Farms	14
TABLE 9: GOAT HERD COMPOSITION Number of Males and Females One Year and Over, and Males and Females Under One Year by Districts and Size of Goat Holding, Traditional Farms	16

	<u>Page</u>
TABLE 10: GOAT HERD COMPOSITION Percentage of Males and Females One Year and Over, and Males and Females Under One Year by Districts and Size of Goat Holding, Traditional Farms	17
TABLE 11: GOAT INVENTORY Births, Deaths, Sales, Home Slaughter and Purchases by Districts and Size of Goat Holding, Traditional Farms	18
TABLE 12: GOAT INVENTORY Ratio of Births, Deaths, Sales, Home Slaughter and Purchases to Total Goats by Districts and Size of Goat Holding, Traditional Farms	19
TABLE 13: SHEEP Farms, Animals and Average Size by Districts and Size of Sheep Holding, Traditional Farms	20
TABLE 14: SHEEP HERD COMPOSITION Number of Males and Females One Year and Over, and Males and Females Under One Year by Districts and Size of Sheep Holding, Traditional Farms	22
TABLE 15: SHEEP HERD COMPOSITION Percentage of Males and Females One Year and Over, and Males and Females Under One Year by Districts and by Size of Sheep Holding, Traditional Farms	23
TABLE 16: SHEEP INVENTORY Births, Deaths, Sales, Home Slaughter and Purchases by Districts and Size of Sheep Holding, Traditional Farms	24
TABLE 17: SHEEP INVENTORY Ratio of Births, Deaths, Sales, Home Slaughter and Purchases to Total Sheep by Districts and Size of Sheep Holding, Traditional Farms	25
TABLE 18: DONKEYS/MULES Farms, Animals and Average Size by Districts and Size of Donkey/Mule Holding, Traditional Farms	26
TABLE 19: CHICKENS Farms, Birds and Average Size by Districts and Size of Flock, Traditional Farms	27

CROPS

TABLE 20: CROP LAND (PLANTED LAND) Farms, Area Planted and Area Planted per Farm by Districts and Size of Area Planted, Traditional Farms	30
TABLE 21: HARVESTED LAND Farms, Ratio of Farms Harvested to Crop Farms, Area Harvested, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Area Planted, Traditional Farms	32

	<u>Page</u>
TABLE 22: SORGHUM PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Sorghum Area Planted, Traditional Farms	33
TABLE 23: SORGHUM HARVESTED Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Sorghum Area Planted, Traditional Farms	34
TABLE 24: SORGHUM PRODUCTION Total Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Sorghum Area Planted, Traditional Farms	35
TABLE 25: MAIZE PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Maize Area Planted, Traditional Farms	36
TABLE 26: MAIZE HARVESTED Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Maize Area Planted, Traditional Farms	37
TABLE 27: MAIZE PRODUCTION Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Maize Area Planted, Traditional Farms	38
TABLE 28: MILLET PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Millet Area Planted, Traditional Farms	39
TABLE 29: MILLET HARVESTED Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Millet Area Planted, Traditional Farms	40
TABLE 30: MILLET PRODUCTION Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Millet Area Planted, Traditional Farms	41
TABLE 31: BEANS/PULSES PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Bean/Pulse Area Planted, Traditional Farms	42
TABLE 32: BEANS/PULSES HARVESTED Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Bean/Pulse Area Harvested, Traditional Farms	43
TABLE 33: BEAN/PULSE PRODUCTION Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Bean/Pulse Area Planted, Traditional Farms	44

	<u>Page</u>
TABLE 34: FOUR CROPS PLANTED (Sorghum, Maize, Millet, Beans/ Pulses) Farms, Area and Area Planted per Farm by Districts and Size of Four Crop Area Planted, Traditional Farms	45
TABLE 35: FOUR CROPS HARVESTED (Sorghum, Maize, Millet, Beans/ Pulses) Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Four Crop Area Planted, Traditional Farms	46
TABLE 36: FOUR CROPS PRODUCTION (Sorghum, Maize, Millet, Beans/ Pulses) Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Four Crop Area Planted, Traditional Farms	47

FIGURES

FIGURE 1: Traditional Cattle by Districts	7
FIGURE 2: Traditional Goats by Districts	15
FIGURE 3: Traditional Sheep by Districts	21
FIGURE 4: Traditional Area Planted by Districts	31

FRANCISTOWN REGION1981 AGRICULTURAL STATISTICS

This report presents the results of the 1981 Crop and Livestock Survey for the Francistown Region. This region is comprised of two Agricultural Districts -- Tati and Tutume. Data for traditional farmers who live year-round in Francistown as well as data on the commercial farms located in this region are not included in this report.

Survey data were collected using a multi-stage stratified probability sample design. The region was divided into survey blocks stratified by district according to lands, cattle post and village areas. From a total of 284 first stage survey blocks, a probability sample of 36 blocks was selected. At the second stage 269 randomly selected farm holders (approximately one out of every 44 farm holders in the Region) were interviewed. Those farmers who reported holding 100 or more cattle were selected with a probability of one.

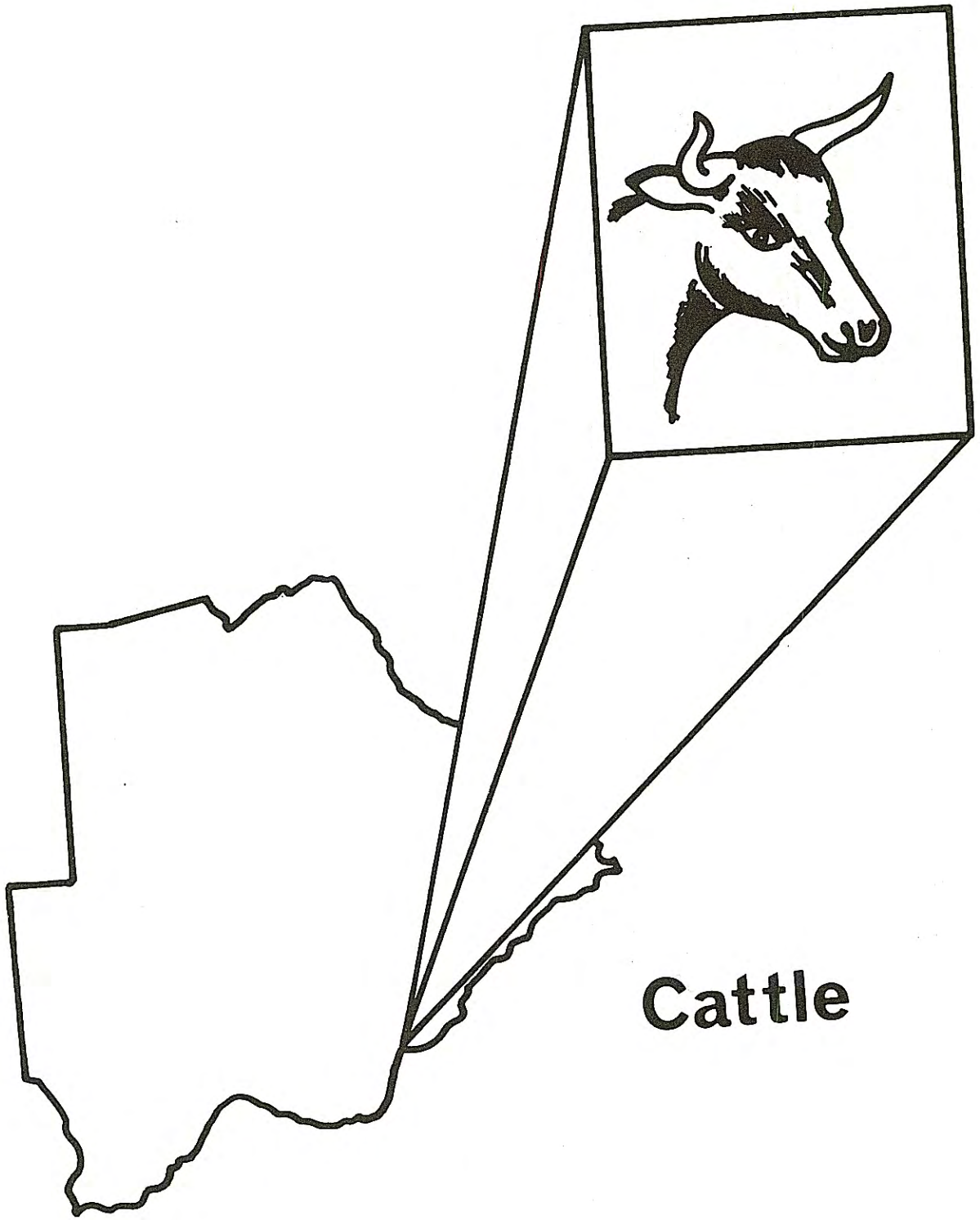
The measure of precision for the regional estimates is given in terms of Coefficient of Variation (C.V.). The Coefficients of Variation are shown in summary Tables 1 and 2.

TABLE 1 : Summary of Traditional Livestock Estimates with Coefficients of Variation for Francistown Region - 1981 Agricultural Statistics

Category	Traditional	Coefficient of Variation
	Number	Percent
TOTAL FARMS	11,900	7.9
CATTLE:		
Cattle farms	8,800	9.0
Total cattle	316,000	23.4
Bulls	6,100	24.0
Oxen	41,200	22.7
Cows	124,200	23.1
Tollies	37,800	25.3
Heifers	47,700	24.1
Calves	59,000	23.7
Births	73,000	23.2
Deaths	38,000	23.6
Sales	21,000	27.5
Purchases	4,000	40.7
Home slaughter	4,500	31.8
GOATS:		
Goat farms	7,600	11.1
Total goats	68,000	13.9
Males one year & over	5,400	19.4
Females one year & over	35,700	14.2
Males under one year	11,600	15.4
Females under one year	15,300	14.9
Births	36,400	15.4
Deaths	22,900	17.8
Sales	1,900	27.6
Purchases	400	44.6
Home slaughter	3,200	16.4
SHEEP:		
Sheep farms	1,000	24.4
Total sheep	6,000	38.5
Males one year & over	700	43.3
Females one year & over	3,400	36.7
Males under one year	700	48.9
Females under one year	1,200	47.2
Births	2,500	45.5
Deaths	2,800	52.3
Sales	600	58.7
Purchases	100	74.2
Home slaughter	200	69.6
OTHER LIVESTOCK:		
Mule/donkey farms	1,800	19.7
Mules/donkeys	8,200	20.0
Horse farms	250	82.2
Horses	700	91.8
Chicken farms	10,600	8.3
Chickens	142,000	9.2

TABLE 2: Summary of Traditional Crop Estimates with Coefficients of Variation for Francistown Region - 1981 Agricultural Statistics

Category	Traditional Number	Coefficient of Variation Percent
TOTAL CROPS:		
Farms with land	10,600	9.3
Farms with crops planted	10,300	9.5
Total land area (hectares)	43,600	12.9
Total area planted (hectares)	37,600	13.0
Total area harvested (hectares)	26,800	16.1
SORGHUM:		
Farms	10,200	9.7
Area planted (hectares)	13,400	11.8
Area harvested (hectares)	11,300	13.6
Total production (metric tons)	1,700	13.1
Average production (kg/hectare)	150	13.7
MAIZE:		
Farms	9,200	10.5
Area planted (hectares)	12,500	17.0
Area harvested (hectares)	8,200	23.2
Total production (metric tons)	900	16.9
Average production (kg/hectare)	110	19.3
MILLET:		
Farms	7,600	11.8
Area planted (hectares)	7,000	14.7
Area harvested (hectares)	5,000	19.2
Total production (metric tons)	630	17.4
Average production (kg/hectare)	126	18.4
BEANS/PULSES		
Farms	6,500	12.4
Area planted (hectares)	3,300	17.1
Area harvested (hectares)	1,500	21.9
Total production (metric tons)	260	24.2
Average production (kg/hectare)	173	26.9
FOUR CROPS: (Sorghum, Maize, Millet & Beans/Pulses)		
Farms	10,300	11.1
Area planted (hectares)	36,200	13.1
Area harvested (hectares)	26,000	16.2
Total production (metric tons)	3,490	12.9
Average production (kg/hectare)	134	12.3

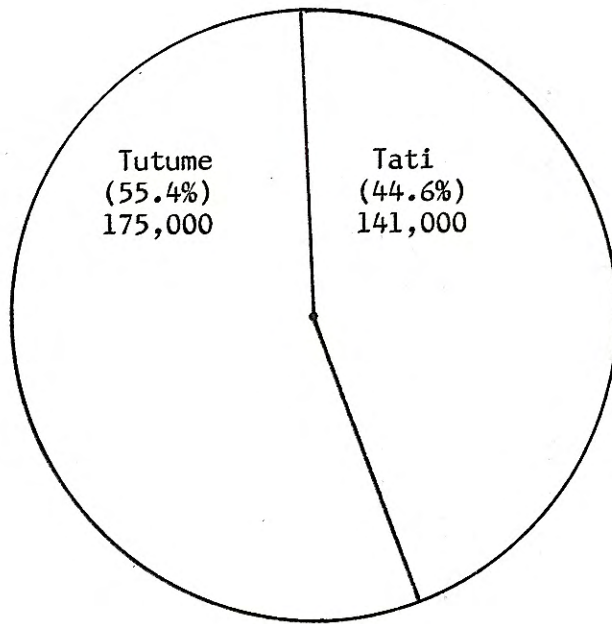


Cattle

TABLE 3: CATTLE Farms, Animals and Average Size by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Cattle Farms		Total Cattle		Average Size
	Number	Percentage	Number (000)	Percentage	Number
<u>DISTRICTS</u>					
Iati	5,000	56.8	141.0	44.6	28.2
Tutume	3,800	43.2	175.0	55.4	46.1
TOTAL	8,800	100.0	316.0	100.0	35.9
<u>HERD SIZE</u>					
1 - 10	2,900	32.9	20.0	6.3	6.9
11 - 20	2,800	31.8	40.8	12.9	14.6
21 - 30	1,450	16.5	36.7	11.6	25.3
31 - 40	400	4.6	14.0	4.4	35.0
41 - 50	350	4.0	16.3	5.2	46.6
51 - 60	50	.6	2.6	.8	52.0
61 - 100	250	2.8	18.4	5.8	73.6
101 +	600	6.8	167.2	53.0	278.7
TOTAL	8,800	100.0	316.0	100.0	35.9

1981 AGRICULTURAL STATISTICS



TOTAL CATTLE: 316,000

Figure 1: Traditional Cattle by Districts

TABLE 4: CATTLE HERD COMPOSITION Bulls, Oxen, Cows, Tollies, Heifers and Calves by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Bulls	Oxen	Cows	Tollies	Heifers	Calves	Total Cattle
- Number (000) -							
<u>DISTRICTS</u>							
Tati	2.7	17.6	54.4	16.9	22.3	27.1	141.0
Tutume	3.4	23.6	69.8	20.9	25.4	31.9	175.0
TOTAL	6.1	41.2	124.2	37.8	47.7	59.0	316.0
<u>HERD SIZE</u>							
1 - 10	.3	2.9	7.7	2.5	3.0	3.6	20.0
11 - 20	.8	6.2	14.6	5.2	6.6	7.4	40.8
21 - 30	.8	5.2	14.3	3.9	5.6	6.9	36.7
31 - 40	.3	1.6	5.2	2.0	2.4	2.5	14.0
41 - 50	.3	2.4	6.7	1.5	2.2	3.2	16.3
51 - 60	.1	.5	.9	.1	.4	.6	2.6
61 - 100	.4	1.7	7.8	2.1	3.5	2.9	18.4
101 +	3.1	20.7	67.0	20.5	24.0	31.9	167.2
TOTAL	6.1	41.2	124.2	37.8	47.7	59.0	316.0

TABLE 5: CATTLE HERD COMPOSITION

Bulls, Oxen, Cows, Tollies, Heifers and Calves by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

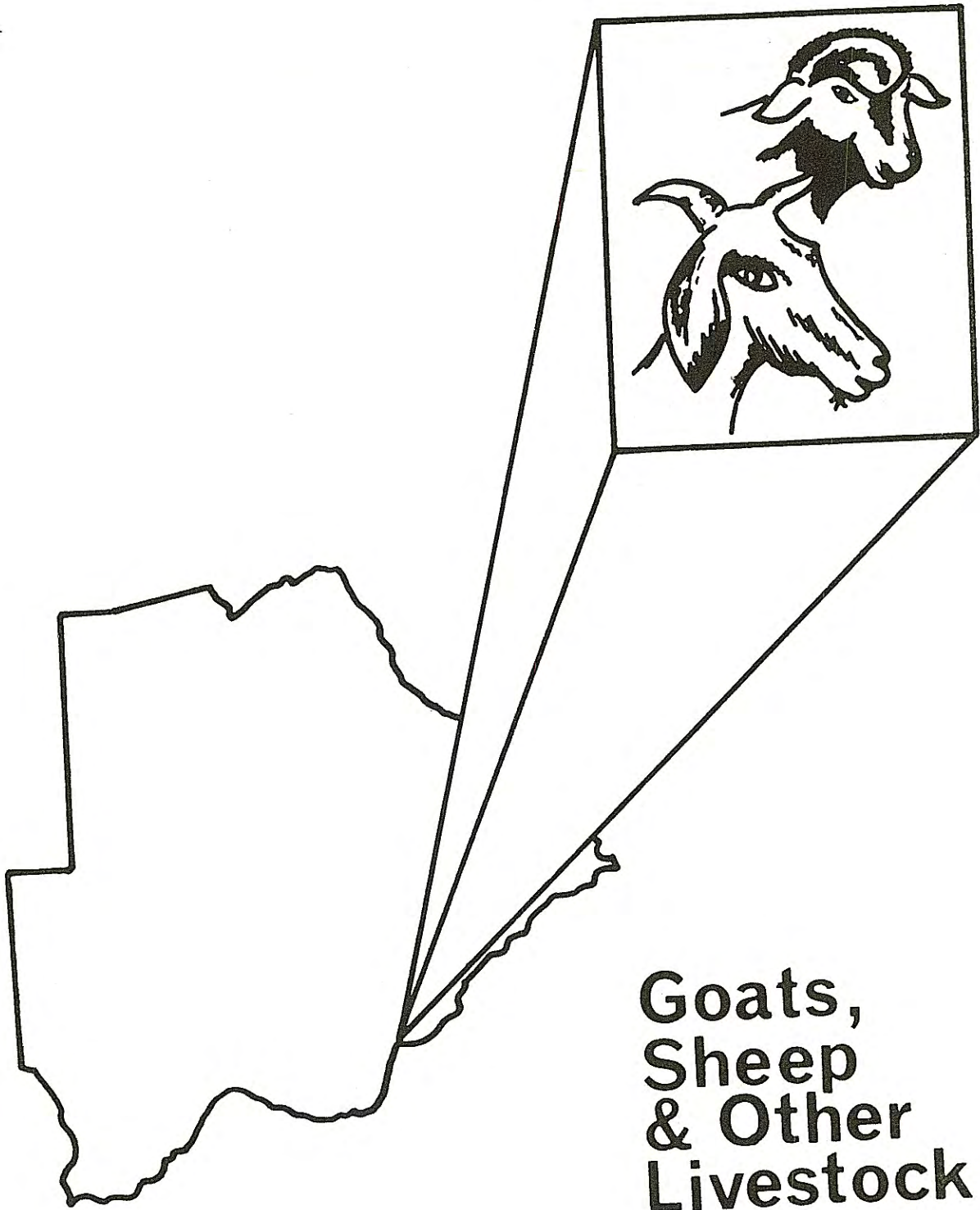
	Bulls	Oxen	Cows	Tollies	Heifers	Calves	Total
- Percentage -							
<u>DISTRICTS</u>							
Tati	1.9	12.5	38.6	12.0	15.8	19.2	100.0
Tutume	1.9	13.6	39.9	11.9	14.5	18.2	100.0
TOTAL	1.9	13.0	39.3	12.0	15.1	18.7	100.0
<u>HERD SIZE</u>							
1 - 10	1.5	14.5	38.5	12.5	15.0	18.0	100.0
11 - 20	2.0	15.2	35.8	12.7	16.2	18.1	100.0
21 - 30	2.2	14.2	39.0	10.6	15.2	18.8	100.0
31 - 40	2.1	11.4	37.1	14.4	17.1	17.9	100.0
41 - 50	1.8	14.7	41.1	9.2	13.5	19.7	100.0
51 - 60	3.8	19.2	34.6	3.8	15.4	23.2	100.0
61 - 100	2.2	9.2	42.4	11.4	19.0	15.8	100.0
101 +	1.9	12.4	40.1	12.3	14.3	19.0	100.0
TOTAL	1.9	13.0	39.3	12.0	15.1	18.7	100.0

TABLE 6: CATTLE INVENTORY Births, Deaths, Sales, Home Slaughter and Purchases by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Births	Deaths	Sales	Home Slaughter	Purchases
- Number (000) -					
<u>DISTRICTS</u>					
Tati	34.0	21.0	8.9	4.1	3.0
Tutume	39.0	17.0	12.1	.4	1.0
TOTAL	73.0	38.0	21.0	4.5	4.0
<u>HERD SIZE</u>					
1 - 10	4.7	4.3	1.4	.1	.8
11 - 20	9.5	5.6	1.7	.4	1.2
21 - 30	8.8	5.0	2.8	.1	.5
31 - 40	3.7	1.5	.8	.1	<u>1</u> / .1
41 - 50	3.7	1.3	.8	.1	.1
51 - 60	.5	.4	.2	.1	--
61 - 100	3.6	3.6	2.0	.1	.2
101 +	38.5	16.3	11.3	3.5	1.2
TOTAL	73.0	38.0	21.0	4.5	4.0

TABLE 7 : CATTLE INVENTORY Ratio of Births to Cows and Deaths, Sales, Home Slaughter, and Purchases to Total Cattle by Districts and Size of Cattle Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Ratio of Births to Cows	Ratio of Deaths to Total Cattle	Ratio of Sales to Total Cattle	Ratio of Home Slaughter to Total Cattle	Ratio of Purchases to Total Cattle
- Percentage -					
<u>DISTRICTS</u>					
Tati	62.5	14.9	6.3	2.9	2.1
Tutume	55.9	9.7	6.9	.2	.6
TOTAL	58.8	12.0	6.6	1.4	1.3
<u>HERD SIZE</u>					
1 - 10	61.0	21.5	7.0	.5	4.0
11 - 20	65.1	13.7	4.2	1.0	2.9
21 - 30	61.5	13.6	7.6	.3	1.4
31 - 40	71.2	10.7	5.7	.7	1/
41 - 50	55.2	8.0	4.9	.6	.6
51 - 60	55.6	15.4	7.7	3.8	--
61 - 100	46.2	19.6	10.9	.5	1.1
101 +	57.5	9.7	6.8	2.1	.7
TOTAL	58.8	12.0	6.6	1.4	1.3

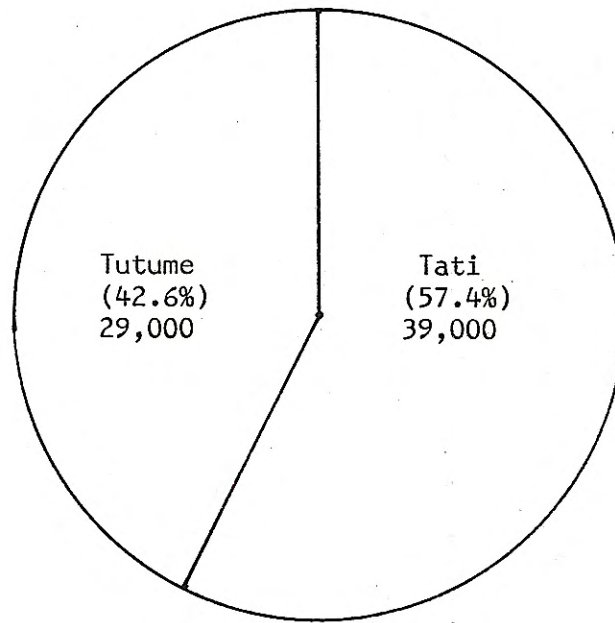


**Goats,
Sheep
& Other
Livestock**

TABLE 8: GOATS Farms, Animals and Average Size by Districts and Size of Goat Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Goat Farms		Total Goats		Average Size
	Number	Percentage	Number (000)	Percentage	Number
<u>DISTRICTS</u>					
Tati	4,500	59.2	39.0	57.4	8.7
Tutume	3,100	40.8	29.0	42.6	9.4
TOTAL	7,600	100.0	68.0	100.0	8.9
<u>HERD SIZE</u>					
1 - 5	2,900	38.2	10.3	15.1	3.6
6 - 10	2,800	36.8	21.7	31.9	7.8
11 - 15	1,000	13.2	13.0	19.1	13.0
16 - 20	400	5.3	8.0	11.8	20.0
21 - 30	300	3.9	7.4	10.9	24.7
31 +	200	2.6	7.6	11.2	38.0
TOTAL	7,600	100.0	68.0	100.0	8.9

1981 AGRICULTURAL STATISTICS



TOTAL GOATS: 68,000

Figure 2: Total Goats by Districts

TABLE 9: GOAT HERD COMPOSITION Number of Males and Females One Year and Over, and Males and Females Under One Year by Districts and Size of Goat Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Males One Year and Over	Females One Year and Over	Males Under One Year	Females Under One Year	Total
- Number (000) -					
<u>DISTRICTS</u>					
Tati	2.5	21.3	6.7	8.5	39.0
Tutume	2.9	14.4	4.9	6.8	29.0
TOTAL	5.4	35.7	11.6	15.3	68.0
<u>HERD SIZE</u>					
1 - 5	.9	5.7	1.6	2.1	10.3
6 - 10	1.7	11.6	3.5	4.9	21.7
11 - 15	1.4	6.4	1.9	3.3	13.0
16 - 20	.3	3.9	1.7	2.1	8.0
21 - 30	.6	3.8	1.5	1.5	7.4
31 +	.5	4.3	1.4	1.4	7.6
TOTAL	5.4	35.7	11.6	15.3	68.0

TABLE 10: GOAT HERD COMPOSITION

Percentage of Males and Females One Year and Over, and Males and Females Under One Year by Districts and Size of Goat Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Males One Year and Over	Females One Year and Over	Males Under One Year	Females Under One Year	Total
- Percentage -					
<u>DISTRICTS</u>					
Tati	6.4	54.6	17.2	21.8	100.0
Tutume	10.0	49.7	16.9	23.4	100.0
TOTAL	7.9	52.5	17.1	22.5	100.0
<u>HERD SIZE</u>					
1 - 5	8.7	55.4	15.5	20.4	100.0
6 - 10	7.8	53.5	16.1	22.6	100.0
11 - 15	10.8	49.2	14.6	25.4	100.0
16 - 20	3.7	48.8	21.2	26.3	100.0
21 - 30	8.1	51.3	20.3	20.3	100.0
31 +	6.6	56.6	18.4	18.4	100.0
TOTAL	7.9	52.5	17.1	22.5	100.0

TABLE 11: GOAT INVENTORY Births, Deaths, Sales, Home Slaughter and Purchases by Districts and Size of Goat Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Births	Deaths	Sales	Home Slaughter	Purchases
- Number (000) -					
<u>DISTRICTS</u>					
Tati	21.5	15.4	1.1	2.0	.2
Tutume	14.9	7.5	.8	1.2	.2
TOTAL	36.4	22.9	1.9	3.2	.4
<u>HERD SIZE</u>					
0	--	--	--	--	--
1 - 5	5.9	6.7	.4	.7	.1
6 - 10	11.6	7.8	.4	.8	.1
11 - 15	7.6	3.5	.3	.5	.1
16 - 20	4.1	1.5	.2	.4	.1
21 - 30	4.2	1.5	.5	.1	<u>1/</u>
31 +	3.0	1.9	.1	.7	<u>1/</u>
TOTAL	36.4	22.9	1.9	3.2	.4

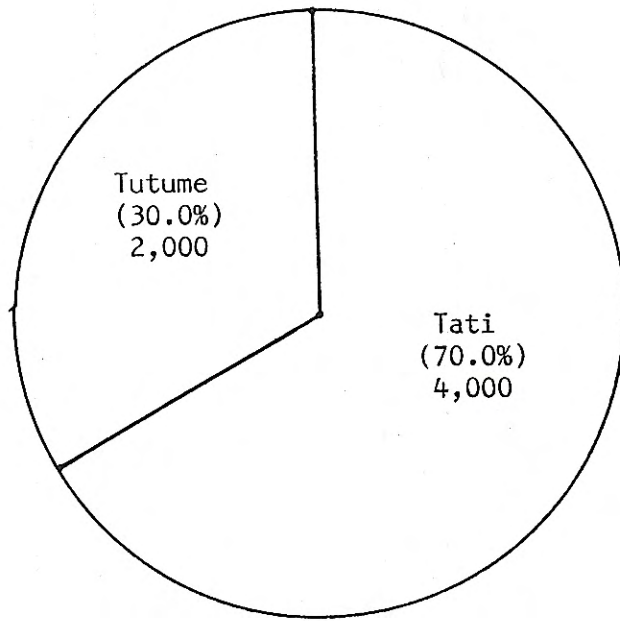
TABLE 12: GOAT INVENTORY Ratio of Births, Deaths, Sales, Home Slaughter and Purchases to Total Goats by Districts and Size of Goat Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Ratio of Births to Total Goats	Ratio of Deaths to Total Goats	Ratio of Sales to Total Goats	Ratio of Home Slaughter to Total Goats	Ratio of Purchases to Total Goats
- Percentage -					
<u>DISTRICTS</u>					
Tati	55.1	39.5	2.8	5.1	.5
Tutume	51.4	25.9	2.8	4.1	.7
TOTAL	53.5	33.7	2.8	4.7	.6
<u>HERD SIZE</u>					
1 - 5	57.3	65.0	3.9	6.8	1.0
6 - 10	53.5	35.9	1.8	3.7	.5
11 - 15	58.5	26.9	2.3	3.8	.8
16 - 20	51.3	18.8	2.5	5.0	1.3
21 - 30	56.8	20.3	6.8	1.4	--
31 +	39.5	25.0	1.3	9.2	--
TOTAL	53.5	33.7	2.8	4.7	.6

TABLE 13: SHEEP Farms, Animals and Average Size by Districts and Size of Sheep Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Sheep Farms		Total Sheep		Average Size
	Number	Percentage	Number (000)	Percentage	Number
<u>DISTRICTS</u>					
Tati	700	70.0	4.0	70.0	5.7
Tutume	300	30.0	2.0	30.0	6.7
TOTAL	1,000	100.0	6.0	100.0	6.0
<u>HERD SIZE</u>					
1 - 5	600	60.0	2.0	33.3	3.3
6 - 10	300	30.0	2.0	33.3	6.7
11 +	100	10.0	2.0	33.4	20.0
TOTAL	1,000	100.0	6.0	100.0	6.0

1981 AGRICULTURAL STATISTICS



TOTAL SHEEP: 6,000

Figure 3: Total Sheep by Districts

TABLE 14: SHEEP HERD COMPOSITION

Number of Males and Females One Year and Over, and Males and Females Under One Year by Districts and Size of Sheep Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Males One Year and Over	Females One Year and Over	Males Under One Year	Females Under One Year	Total
- Number (000) -					
<u>DISTRICTS</u>					
Tati	.5	2.2	.5	.8	4.0
Tutume	.2	1.2	.2	.4	2.0
TOTAL	.7	3.4	.7	1.2	6.0
<u>HERD SIZE</u>					
1 - 5	.3	1.2	.2	.2	1.9
6 - 10	.1	1.2	.2	.6	2.1
11 +	.3	1.0	.3	.4	2.0
TOTAL	.7	3.4	.7	1.2	6.0

TABLE 15: SHEEP HERD COMPOSITION

Percentage of Males and Females One Year and Over, and Males and Females Under One Year by District and Size of Sheep Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Males One Year and Over	Females One Year and Over	Males Under One Year	Females Under One Year	Total
- Percentage -					
<u>DISTRICTS</u>					
Tati	12.5	55.0	12.5	20.0	100.0
Tutume	10.0	60.0	10.0	20.0	100.0
TOTAL	11.7	56.7	11.6	20.0	100.0
<u>HERD SIZE</u>					
1 - 5	15.8	63.2	10.5	10.5	100.0
6 - 10	4.8	57.1	9.5	28.6	100.0
11 +	15.0	50.0	15.0	20.0	100.0
TOTAL	11.7	56.7	11.6	20.0	100.0

TABLE 16: SHEEP INVENTORY Births, Deaths, Sales, Home Slaughter and Purchases by Districts and Size of Sheep Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Births	Deaths	Sales	Home Slaughter	Purchases
- Number (000) -					
<u>DISTRICTS</u>					
Tati	1.6	2.0	.4	.1	.1
Tutume	.9	.8	.2	.1	--
TOTAL	2.5	2.8	.6	.2	.1
<u>HERD SIZE</u>					
0	--	.5	.1	.1	--
1 - 5	.7	1.4	.1	--	.1
6 - 10	.9	.5	.1	.1	--
11 +	.9	.4	.3	--	--
TOTAL	2.5	2.8	.6	.2	.1

TABLE 17: SHEEP INVENTORY

Ratio of Births, Deaths, Sales, Home Slaughter and Purchases to Total Sheep by Districts and Size of Sheep Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Ratio of Births to Total Sheep	Ratio of Deaths to Total Sheep	Ratio of Sales to Total Sheep	Ratio of Home Slaughter to Total Sheep	Ratio of Purchases to Total Sheep
- Percentage -					
<u>DISTRICTS</u>					
Tati	40.0	50.0	10.0	2.5	2.5
Tutume	45.0	40.0	10.0	5.0	--
TOTAL	41.7	46.7	10.0	3.3	1.7
<u>HERD SIZE</u>					
1 - 5	36.8	73.7	5.3	--	5.3
6 - 10	42.9	23.8	4.8	4.8	--
11 +	45.0	20.0	15.0	--	--
TOTAL	41.7	46.7	10.0	3.3	1.7

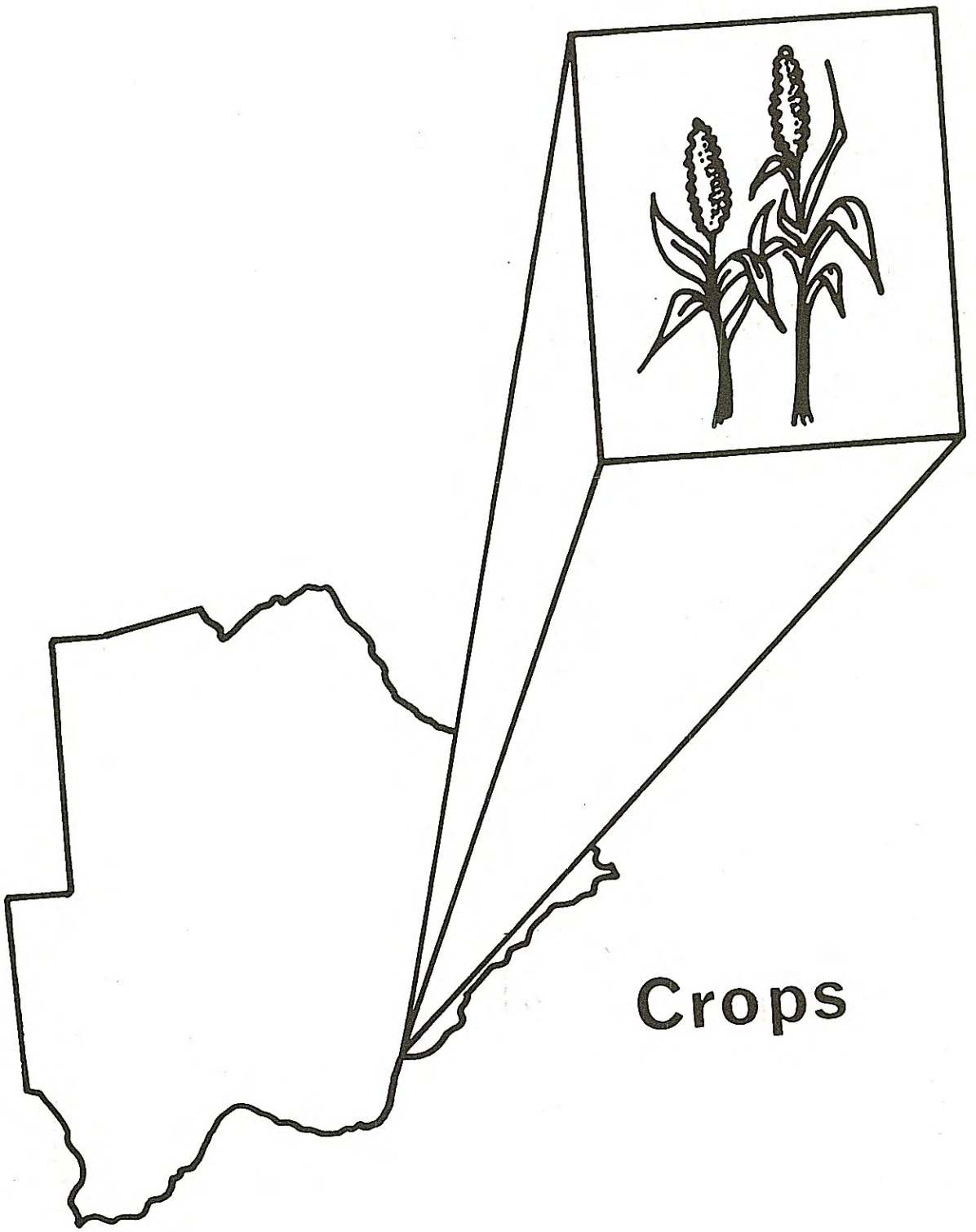
TABLE 18: DONKEYS/MULES Farms, Animals and Average Size by Districts and Size of Donkey/Mule Holding, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Donkey/Mule Farms		Total Donkeys/Mules		Average Size
	Number	Percentage	Number (000)	Percentage	Number
<u>DISTRICTS</u>					
Tati	1,000	55.6	4.6	56.1	4.6
Tutume	800	44.4	3.6	43.9	4.5
TOTAL	1,800	100.0	8.2	100.0	4.6
<u>HERD SIZE</u>					
1 - 5	1,500	83.3	5.4	65.9	3.6
6 - 10	250	13.9	2.0	24.4	8.0
11 +	50	2.8	.8	9.7	16.0
TOTAL	1,800	100.0	8.2	100.0	4.6

TABLE 19: CHICKENS

Farms, Birds and Average Size by Districts and Size of Flock,
Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Chicken Farms		Total Chickens		Average Size
	Number	Percentage	Number (000)	Percentage	Number
<u>DISTRICTS</u>					
Tati	6,200	58.5	76.0	53.5	12.3
Tutume	4,400	41.5	66.0	46.5	15.0
TOTAL	10,600	100.0	142.0	100.0	13.4
<u>FLOCK SIZE</u>					
1 - 5	2,100	19.8	7.8	5.5	3.7
6 - 10	3,400	32.1	28.9	20.3	8.5
11 - 15	2,100	19.8	28.6	20.1	13.6
16 - 20	1,400	13.2	26.2	18.5	18.7
21 - 25	300	2.8	6.6	4.7	22.0
26 - 30	800	7.6	23.9	16.8	29.9
31 +	500	4.7	20.0	14.1	40.0
TOTAL	10,600	100.0	142.0	100.0	13.4

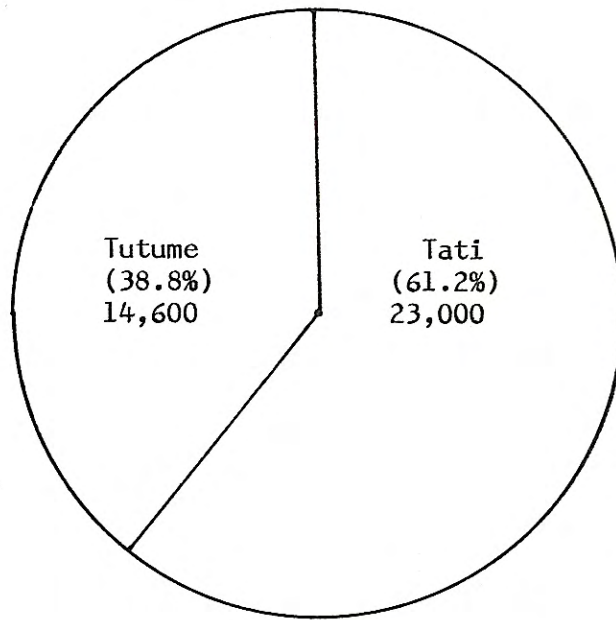


Crops

TABLE 20: CROP LAND (PLANTED LAND) Farms, Area Planted and Area Planted per Farm by Districts and Size of Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

<u>DISTRICTS</u>	Crop Farms		Area Planted		Area Planted per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
Tati	6,300	61.2	23.0	61.2	3.7
Tutume	4,000	38.8	14.6	38.8	3.7
TOTAL	10,300	100.0	37.6	100.0	3.7
<u>HECTARAGE PLANTED</u>					
.1 - 1.0	1,100	10.7	.8	2.1	.7
1.1 - 2.0	2,300	22.3	3.5	9.3	1.5
2.1 - 3.0	2,300	22.3	5.7	15.2	2.5
3.1 - 4.0	1,400	13.6	4.8	12.8	3.4
4.1 - 5.0	950	9.2	4.3	11.4	4.5
5.1 - 6.0	750	7.3	4.1	10.9	5.5
6.1 - 7.0	550	5.4	3.4	9.0	6.2
7.1 +	950	9.2	11.0	29.3	11.6
TOTAL	10,300	100.0	37.6	100.0	3.7

1981 AGRICULTURAL STATISTICS



Total Area Planted: 37,600

Figure 4: Traditional Area Planted by Districts

TABLE 21: HARVESTED LAND Farms, Ratio of Farms Harvested to Crop Farms, Area Harvested, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Farms Harvested	Ratio of Farms Harvested to Crop Farms	Area Harvested	Ratio of Area Harvested to Planted	Area Harvested per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
<u>DISTRICTS</u>					
Tati	5,600	88.9	15.1	65.7	2.7
Tutume	3,600	90.0	11.7	80.1	3.3
TOTAL	9,200	89.3	26.8	71.3	2.9
<u>HECTARAGE PLANTED</u>					
.1 - 1.0	950	86.4	.5	62.5	.5
1.1 - 2.0	2,000	87.0	2.3	65.7	1.2
2.1 - 3.0	1,950	84.8	3.4	59.6	1.7
3.1 - 4.0	1,300	92.9	3.1	64.6	2.4
4.1 - 5.0	850	89.5	2.6	60.5	3.1
5.1 - 6.0	750	100.0	2.9	70.7	3.9
6.1 - 7.0	550	100.0	2.7	79.4	4.9
7.1 +	850	89.5	9.3	84.5	10.9
TOTAL	9,200	89.3	26.8	71.3	2.9

TABLE 22: SORGHUM PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Sorghum Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Farms Planted		Area Planted		Area Planted per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
<u>DISTRICTS</u>					
Tati	6,200	60.8	8.3	61.9	1.3
Tutume	4,000	39.2	5.1	38.1	1.3
TOTAL	10,200	100.0	13.4	100.0	1.3
<u>HECTARAGE PLANTED</u>					
.1 - 1.0	4,950	48.5	2.9	21.6	.6
1.1 - 2.0	3,750	36.8	5.3	39.6	1.4
2.1 - 3.0	800	7.9	1.9	14.2	2.4
3.1 - 4.0	400	3.9	1.4	10.4	3.5
4.1 +	300	2.9	1.9	14.2	6.3
TOTAL	10,200	100.0	13.4	100.0	1.3

TABLE 23: SORGHUM HARVESTED Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Sorghum Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Farms Harvested		Ratio of Farms Harvested to Planted	Area Harvested		Ratio of Area Harvested to Planted	Area Harvested per Farm
	Number	Percentage	Percentage	Hectares (000)	Percentage	Percentage	Hectares
<u>DISTRICTS</u>							
Tati	5,000	61.0	80.6	7.0	61.9	84.3	1.4
Tutume	3,200	39.0	80.0	4.3	38.1	84.3	1.3
TOTAL	8,200	100.0	80.4	11.3	100.0	84.3	1.4
<u>HECTARAGE PLANTED</u>							
.1 - 1.0	3,800	46.3	76.8	2.3	20.4	79.3	.7
1.1 - 2.0	3,100	37.8	82.7	4.4	38.9	83.0	1.4
2.1 - 3.0	700	8.5	87.5	1.7	15.0	89.5	2.4
3.1 - 4.0	400	4.9	100.0	1.3	11.5	92.9	3.3
4.1 +	200	2.5	66.7	1.6	14.2	84.2	8.0
TOTAL	8,200	100.0	80.4	11.3	100.0	84.3	1.4

TABLE 24: SORGHUM PRODUCTION Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Sorghum Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

<u>DISTRICTS</u>	Total Production		Production per Harvested Farm	Average Yield per Hectare
	Metric Tons	Percentage	Kilograms	Kilograms
Tati	1,030	60.6	206	147
Tutume	670	39.4	209	156
TOTAL	1,700	100.0	207	150
<u>HECTARAGE PLANTED</u>				
.1 - 1.0	645	37.9	170	280
1.1 - 2.0	625	36.8	202	142
2.1 - 3.0	145	8.5	207	85
3.1 - 4.0	90	5.3	225	69
4.1 +	195	11.5	975	122
TOTAL	1,700	100.0	207	150

TABLE 25 : MAIZE PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Maize Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Farms Planted		Area Planted		Area Planted Per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
<u>DISTRICTS</u>					
Tati	5,600	60.9	7.1	56.8	1.3
Tutume	3,600	39.1	5.4	43.2	1.5
TOTAL	9,200	100.0	12.5	100.0	1.4
<u>HECTARAGE PLANTED</u>					
.1 - 1.0	5,150	56.0	2.9	23.2	.6
1.1 - 2.0	2,450	26.6	3.6	28.8	1.5
2.1 - 3.0	1,000	10.9	2.5	20.0	2.5
3.1 +	600	6.5	3.5	28.0	5.8
TOTAL	9,200	100.0	12.5	100.0	1.4

TABLE 26: MAIZE HARVESTED

Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Maize Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Farms Harvested		Ratio of	Area Harvested		Ratio of	Area
	Number	Percentage	Farms Harvested to Planted Percentage	Hectares	Percentage	Area Harvested to Planted Percentage	Harvested per Farm Hectares
<u>DISTRICTS</u>							
Tati	2,700	50.0	48.2	3.8	46.3	53.5	1.4
Tutume	2,700	50.0	75.0	4.4	53.7	81.5	1.6
TOTAL	5,400	100.0	58.7	8.2	100.0	65.6	1.5
<u>HECTARAGE PLANTED</u>							
.1 - 1.0	2,900	53.7	56.3	1.6	19.5	55.2	.6
1.1 - 2.0	1,350	25.0	55.1	1.9	23.2	52.8	1.4
2.1 - 3.0	700	13.0	70.0	1.7	20.7	68.0	2.4
3.1 +	450	8.3	75.0	3.0	36.6	85.7	6.7
TOTAL	5,400	100.0	58.7	8.2	100.0	65.6	1.5

TABLE 27: MAIZE PRODUCTION Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Maize Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Total Production		Production per Harvested Farm	Average Yield per Hectare
	Metric Tons	Percentage	Kilograms	Kilograms
<u>DISTRICTS</u>				
Tati	350	38.9	130	92
Tutume	550	61.1	204	125
TOTAL	900	100.0	167	110
<u>HECTARAGE PLANTED</u>				
.1 - 1.0	290	32.2	100	181
1.1 - 2.0	235	26.1	174	124
2.1 - 3.0	205	22.8	293	121
3.1 +	170	18.9	378	57
TOTAL	900	100.0	167	110

TABLE 28: MILLET PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Millet Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Farms Planted		Area Planted		Area Planted Per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
<u>DISTRICTS</u>					
Tati	4,600	60.5	4.2	60.0	.9
Tutume	3,000	39.5	2.8	40.0	.9
TOTAL	7,600	100.0	7.0	100.0	.9
<u>HECTARAGE PLANTED</u>					
.1 - 1.0	5,200	68.4	2.6	37.1	.5
1.1 - 2.0	2,100	27.6	2.9	41.4	1.4
2.1 - 3.0	150	2.0	.3	4.3	2.0
3.1 +	150	2.0	1.2	17.2	8.0
TOTAL	7,600	100.0	7.0	100.0	.9

TABLE 29: MILLET HARVESTED Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Millet Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Farms Harvested		Ratio of	Area Harvested		Ratio of	Area
	Number	Percentage	Farms Harvested to Planted Percentage	Hectares	Percentage	Area Harvested to Planted Percentage	Harvested per Farm Hectares
<u>DISTRICTS</u>							
Tati	2,800	58.3	60.9	2.9	58.0	69.0	1.0
Tutume	2,000	41.7	66.7	2.1	42.0	75.0	1.1
TOTAL	4,800	100.0	63.2	5.0	100.0	71.4	1.0
<u>HECTARAGE PLANTED</u>							
.1 - 1.0	3,100	64.6	59.6	1.5	30.0	57.6	.5
1.1 - 2.0	1,500	31.2	71.4	2.1	42.0	72.4	1.4
2.1 - 3.0	100	2.1	66.7	.2	4.0	66.7	2.0
3.1 +	100	2.1	66.7	1.2	24.0	100.0	12.0
TOTAL	4,800	100.0	63.2	5.0	100.0	71.4	1.0

TABLE 30: MILLET PRODUCTION

Total Production, Production per Harvested Farm and Average Yield per Hectare
by Districts and Size of Millet Area Planted, Traditional Farms
Francistown Region - 1981 Agricultural Statistics

<u>DISTRICTS</u>	Total Production		Production per Harvested Farm	Average Yield per Hectare
	Metric Tons	Percentage	Kilograms	Kilograms
Tati	335	53.2	120	116
Tutume	295	46.8	148	140
TOTAL	630	100.0	131	126
<u>HECTARAGE PLANTED</u>				
.1 - 1.0	285	45.2	92	190
1.1 - 2.0	245	38.9	163	117
2.1 - 3.0	20	3.2	200	100
3.1 +	80	12.7	800	67
TOTAL	630	100.0	131	126

TABLE 31: BEANS/PULSES PLANTED Farms, Area and Area Planted per Farm by Districts and Size of Bean/Pulse Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Farms Planted		Area Planted		Area Planted Per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
<u>DISTRICTS</u>					
Tati	4,500	69.2	2.4	72.7	.5
Tutume	2,000	30.8	.9	27.3	.5
TOTAL	6,500	100.0	3.3	100.0	.5
<u>HECTARAGE PLANTED</u>					
.1 - 1.0	5,850	90.0	2.2	66.7	.4
1.1 - 2.0	450	6.9	.6	18.2	1.3
2.1 +	200	3.1	.5	15.1	2.5
TOTAL	6,500	100.0	3.3	100.0	.5

TABLE 32: BEANS/PULSES HARVESTED

Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Bean/Pulse Area Harvested, Traditional Farms Francistown Region - 1981 Agricultural Statistics

	Farms Harvested		Ratio of	Area Harvested		Ratio of	Area
	Number	Percentage	Farms Harvested to Planted Percentage	Hectares (000)	Percentage	Area Harvested to Planted Percentage	Harvested per Farm Hectares
<u>DISTRICTS</u>							
Tati	1,900	61.3	42.2	.9	60.0	37.5	.5
Tutume	1,200	38.7	60.0	.6	40.0	66.7	.5
TOTAL	3,100	100.0	47.7	1.5	100.0	45.5	.5
<u>HECTARAGE PLANTED</u>							
.1 - 1.0	2,750	87.1	47.0	1.0	66.7	45.5	.4
1.1 - 2.0	300	9.7	66.7	.4	26.7	66.7	1.3
2.1 +	50	3.2	25.0	.1	6.6	20.0	2.0
TOTAL	3,100	100.0	47.7	1.5	100.0	45.5	.5

TABLE 33: BEANS/PULSES PRODUCTION

Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Bean/Pulse Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

<u>DISTRICTS</u>	Total Production		Production per Harvested Farm	Average Yield per Hectare
	Metric Tons	Percentage	Kilograms	Kilograms
Tati	160	61.5	84	178
Tutume	100	38.5	83	167
TOTAL	260	100.0	84	173
<u>HECTARAGE PLANTED</u>				
.1 - 1.0	185	71.2	67	185
1.1 - 2.0	65	25.0	217	163
2.1 +	10	3.8	200	100
TOTAL	260	100.0	84	173

TABLE 34: FOUR CROPS PLANTED (Sorghum, Maize, Millet and Beans/Pulses) Farms, Area and Area Planted per Farm by Districts and Size of Four Crop Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

DISTRICTS	Farms Planted		Area Planted		Area Planted per Farm
	Number	Percentage	Hectares (000)	Percentage	Hectares
Tati	6,300	61.2	22.2	61.3	3.5
Tutume	4,000	38.8	14.0	38.7	3.5
TOTAL	10,300	100.0	36.2	100.0	3.5
<u>HECTARAGE PLANTED</u>					
.1 - 1.0	1,200	11.7	.8	2.2	.7
1.1 - 2.0	2,350	22.8	3.5	9.7	1.5
2.1 - 3.0	2,400	23.4	5.9	16.3	2.5
3.1 - 4.0	1,350	13.1	4.6	12.7	3.4
4.1 - 5.0	900	8.7	4.1	11.3	4.6
5.1 - 6.0	900	8.7	4.8	13.3	5.3
6.1 - 7.0	250	2.4	1.5	4.1	6.0
7.1 +	950	9.2	11.0	30.4	11.6
TOTAL	10,300	100.0	36.2	100.0	3.5

TABLE 35: FOUR CROPS HARVESTED (Sorghum, Maize, Millet and Beans/Pulses) Farms, Ratio of Farms Harvested to Planted, Area, Ratio of Area Harvested to Planted and Area Harvested per Farm by Districts and Size of Four Crop Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

<u>DISTRICTS</u>	Farms Harvested		Ratio of Farms Harvested to Planted	Area Harvested		Ratio of Area Harvested to Planted	Area Harvested per Farm
	Number	Percentage	Percentage	Hectares (000)	Percentage	Percentage	Hectares
Tati	5,600	60.9	88.9	14.6	56.2	65.8	2.6
Tutume	3,600	39.1	90.0	11.4	43.8	81.4	3.2
TOTAL	9,200	100.0	89.3	26.0	100.0	71.8	2.8
<u>HECTARAGE PLANTED</u>							
.1 - 1.0	1,000	10.9	83.3	.5	1.9	62.5	.5
1.1 - 2.0	2,100	22.8	89.4	2.4	9.2	68.6	1.1
2.1 - 3.0	2,050	22.3	85.4	3.6	13.9	61.0	1.8
3.1 - 4.0	1,200	13.0	88.9	2.8	10.8	60.9	2.3
4.1 - 5.0	900	9.8	100.0	3.0	11.5	73.2	3.3
5.1 - 6.0	900	9.8	100.0	3.5	13.5	72.9	3.9
6.1 - 7.0	250	2.7	100.0	1.3	5.0	86.7	5.2
7.1 +	800	8.7	84.2	8.9	34.2	80.9	11.1
TOTAL	9,200	100.0	89.3	26.0	100.0	71.8	2.8

TABLE 36: FOUR CROPS PRODUCTION (Sorghum, Maize, Millet and Beans/Pulses) Total Production, Production per Harvested Farm and Average Yield per Hectare by Districts and Size of Four Crop Area Planted, Traditional Farms Francistown Region - 1981 Agricultural Statistics

<u>DISTRICTS</u>	Total Production		Production per Harvested Farm	Average Yield per Hectare
	Metric Tons	Percentage	Kilograms	Kilograms
Tati	1,875	53.7	335	128
Tutume	1,615	46.3	449	142
TOTAL	3,490	100.0	379	134
<u>HECTARAGE PLANTED</u>				
.1 - 1.0	200	5.7	200	400
1.1 - 2.0	545	15.6	260	227
2.1 - 3.0	585	16.8	285	163
3.1 - 4.0	450	12.9	375	161
4.1 - 5.0	410	11.8	456	137
5.1 - 6.0	315	9.0	350	90
6.1 - 7.0	150	4.3	600	115
7.1 +	835	23.9	1,044	94
TOTAL	3,490	100.0	379	134